



From: Sent: Prasad, Sarada

Tuesday, October 02, 2001 12:33 PM

To: Subject: STIC-Biotech/ChemLib ser no. 09532263

Please perofrm a search of SEQ ID No. 4 for this application. thank you,

Sarada Prasad, Ph.D. Patent Examiner Art Unit 1646 Room CM1-10B01 Tel: 703-305-1009 CE (V)

Wymail Box # 1001

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RESULT
                                                                                                                     27-APR-1993
MUSAIC2A09/c
                      MUSAIC2A09 160 bp
                                                                                                   ROD
                                                                DNA
DEFINITION Mus musculus IL-3 receptor B-subunit (AIC2A) gene, excn 10.

CESSION M94144
                      M94144
M94144.1 GI:191815
IL-3 receptor B-subunit.
9 of 13
VERSION
KEYWORDS
                       Mus musculus (strain BALB/c. sub_species domesticus) DNA.
SEGMENT
SOURCE
                      Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 160)
Gorman, D.M., Itoh, N., Jenkins, N.A., Gilbert, D.A., Copeland, N.G. and
   ORGANISM
REFERENCE
                       Gorman, D.M., Iton, N., Jenkins, R.A., Gilbert, J.A., Coperand, Miyajima, A.
Chromosomal localization and organization of the murine genes
encoding the beta subunits (AIC2A and AIC2B) of the interleukin 3,
granulocyte/macrophage colony-stimulating factor, and interleukin 5
    AUTHORS
    TITLE
                        receptors
J. Biol. Chem. 267, 15842-15848 (1992)
92348451
    JOURNAL
     MEDLINE
                                         Location/Qualifiers
 FEATURES
                                        Location/qualifiers
1. .160
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           exon
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42 C
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                                                                                     25 t.
                                 43 a
 BASE COUNT
 ORIGIN
                                                  92.0%; Score 13.8; DB 94; Length 160;
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Query Match

Best Local Similarity 80.0%; Pred. No. 7.9e+02;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Y 1 RCTCCAYTCRCTCCA 15
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standard; Protein; 422 AA.

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Human interleukin-11 (IL-11) receptor (AAR99090) is thought to play a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          role in the regulation of bone maturation and repair. Its aminorated sequence was deduced form a cDNA clone (AAT33278) isolated from a human activated peripheral blood mononuclear cell cDNA library. Recombinant IL-II receptor or its fragments, pref. amino acids 24-422, 24-365 (solubbe extracellular domain), 391-422, 102-422 or 102-365, can be expressed in host cell systems. It is used to treat/prevent loss of bone mass (e.g. osteoporosis, paget's disease, multiple myeloma or hypogonadal conditions), as well as immune
                                                                                         Interleukin-11 receptor; IL-11 receptor; antibody; antagonist; bone;
osteoporosis; Paget disease; myeloma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New nucleic acid encoding human interleukin 11 receptor - and related protein, antibodies, receptor antagonists, etc, useful for treating and preventing loss of bone mass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence Comparison A
                                                                                                                                                                                                                                                                                                                                                                                                                                            112..365
/label= Type-1-cytokine_region
366..390
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                                                                                                                                                                                                                                                                      /label- Sig_peptide
24..422
/label- Mat_protein
24..365
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   391..422
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                                                                                                                                                                                                                                                                                                                                                                                                  24..111
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 13; Page 35-37; 5/pp; English.
                                                                                                                                                                                                                            Location/Qualifiers
                                                 Human interleukin-11 raceptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  94US-0362304.
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(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    diseases and cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1996-309588/31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      422 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB; AAT33278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27-NOV-1995;
                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-JUN-1996
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                                                                                                                                                                                                                                                                                                                                                        Domain
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PNL 423

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1; Gaps

DB 17; Length 422; 1; Indels 임 ò

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1 MSSSCSGLSRVLVAVATALVSASSPCPQAWGPPGVQYGQPGRSVKLCCPGVTAGDPVSWF 60

98.9%; Score 2257.5; DB 17 99.5%; Pred. No. 1.4e-148; ive 0; Mismatches 1;

Query Match 98.9 Best Local Similarity 99.5 Matches 421; Conservative

121 QAADYENFSCTWSPSQISGLPTRYLTSYRKKTVLGADSQRRSPSTGPWPCPQDPLGAARC 180

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